

# Eastern Great Lakes Area Contingency Plan

## Annex II

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<p style="text-align: center;"><b>RECORD OF CHANGES</b></p> <p style="text-align: center;"><b>EASTERN GREAT LAKES</b></p> <p style="text-align: center;"><b>AREA CONTINGENCY PLAN</b></p>			
<b>Date of Change</b>	<b>Change Number</b>	<b>Summary of Changes</b>	<b>Initials of Person Making Changes</b>
15 JUN 94	CH-1	Complete Revision	
15 JUN 95	CH-2	Complete Revision	
15 JUN 96	CH-3	Complete Revision	
1 JAN 00	CH-4	Complete Revision	
1 FEB 01	CH-5	Sensitive Area Map Updates	

## SPILL RESPONSE CONTACT SHEET

### Required Notifications for Hazardous Substance or Oil Spills

National Response Center ..... (800) 424-8802

U.S. Coast Guard Marine Safety Office Buffalo ..... (716) 843-9570

New York State Department of Environmental Conservation ..... (800) 457-7362

Cortland (607) 753-9334

#### U.S. Coast Guard (USCG)

National Response Center (800) 424-8802

Marine Safety Office Buffalo:

Daytime (716) 843-9570

24 Hours (716) 843-9525

Station Buffalo:

Watchstander (716) 843-9560

Station Niagara:

Watchstander (716) 745-3328

Ninth Coast Guard District:

Communications Center (216) 902-6117

Marine Response Operations (216) 902-6045

Atlantic Strike Team (609) 724-0008

National Pollution Funds Center (703) 235-4813

#### Environmental Protection Agency (EPA)

Region 2 Spill Response (NY) (732) 548-8730

#### National Oceanic Atmosphere Administration

Scientific Support Coordinator (617) 223-8016

Weather 800 WX-BRIEF

#### Canadian Agencies

Canadian Coast Guard OpCen (519) 383-1841

Welland Canal (905) 641-1932

Environment Canada (416) 973-1059

#### Department of Interior

New York - Daytime (617) 223-8565

New York - 24 Hours (508) 655-6102

#### Army Corps of Engineers

Buffalo - Duty Hours (716) 879-4160

24 Hours (716) 879-0395

Regulatory Branch (716) 879-4313

#### U.S. Fish and Wildlife

Amherst (716) 691-5456

#### Seneca Nation

Environmental Response Office (716) 532-0024

#### New York State Agencies

Dept of Environmental Conservation

Region 9, Buffalo (716) 851-7220

24 Hours (800) 457-7362

State Emergency Management Office

Region V - Daytime (315) 331-4880

24 Hours (518) 457-2200

State Police (716) 679-1521

Health Department (716) 847-4500

State Parks (716) 278-1705

State Historic Preservation Office (518) 237-8643

#### County Agencies

Erie County (NY)

Emergency Management (716) 858-6578

24 Hours (716) 858-6578

Fax (716) 858-7937

Sheriff's Department (716) 662-5554

Health Department (716) 858-6963

24 Hours (716) 898-4225

Niagara County (NY)

Emergency Services (716) 439-7310

24 Hours (716) 439-7310

Fax (716) 439-7309

Sheriff's Office (716) 438-3393

Health Department (24hr) (716) 439-7430

#### HAZMAT Response Teams (Public Agency)

Erie County

Buffalo Fire Department (716) 851-4306

Erie County (716) 858-6578

Southtowns Hazmat (716) 648-5111

Brighton Hazmat (716) 876-1212

Niagara County

Niagara County	(716) 438-3393
Lewiston Hazmat	(716) 438-3393
Niagara Air Base	(716) 236-2086

Petroclean, Inc.	(814) 726-1751
	(800) 247-3592

#### **HAZMAT Response Teams (Industry)**

OxyChem	(716) 278-7539
Dupont TERP	(716) 278-5131

#### **Hospitals**

Erie County	
Buffalo General	(716) 845-5600
Children's Hospital	(716) 878-7000
ECMC	(716) 898-3000
Kenmore Mercy	(716) 879-6100
Mercy	(716) 826-7000
Milliard Fillmore	(716) 887-4600
Millard Fillmore (Suburban)	(716) 688-3100
Our Lady of Victory	(716) 825-8000
Roswell Park	(716) 845-2300
St. Francis	(716) 837-4200
Sheehan Memorial	(716) 842-2200
Sisters of Charity	(716) 862-2000
Veterans	(716) 834-9200
Niagara County	
DeGraff	(716) 694-4500
Lockport Memorial	(716) 433-9525
Mount St. Mary's	(716) 297-4800
Niagara Falls Memorial	(716) 778-5111

#### **Oil Spill Response Contractors**

Browning-Ferris Industries	(716) 672-5027
Clean Harbors Environmental	(800) 854-2821
	(781) 849-6070
Duff's Environmental Service	(716) 965-4245
Environmental Products & Service	(716) 447-4700
	(800) 757-7455
Environmental Service Group	(716) 695-6720
	(800) 348-0316
Marine Pollution Control	(313) 849-2333
OHM Environmental	(716) 693-8800
	(800) 457-4412
Op-Tech Environmental Group	(800) 225-6750
Petroclean, Inc.	(800) 247-3592

#### **HAZMAT Response Contractors**

Clean Harbors Environmental	(781) 849-6070
	(800) 854-2821
Environmental Products & Service	(716) 447-4700
	(800) 757-7455
Environmental Service Group	(716) 695-6720
Marine Pollution Control	(313) 849-2333
	(800) 348-0316
OHM Environmental	(716) 693-8800
	(800) 457-4412
Op-Tech Environmental Group	(800) 225-6750

#### **Lake Erie Water Intakes**

Angola Water Dept.	(716) 549-2210
Erie County Water Authority	(716) 947-5450
Buffalo River Corp.	(716) 675-1317
Bethlehem Steel	(716) 821-3609
City of Buffalo	(716) 851-4724

#### **Niagara River Water Intakes**

Town of Tonawanda	(716) 877-4453
General Motors Plant	(716) 879-5151
Dupont Film Corp.	(716) 879-1784
NRG Energy Nuclear Plant	(716) 879-3872
Town of Grand Island	(716) 278-1777
City of Tonawanda	(716) 692-0040
City of North Tonawanda	(716) 695-8536
Village of Lockport	(716) 439-6726
Niagara County Water Authority	(716) 283-3013
New York Power Authority	(716) 285-3211
City of Niagara Falls, USA	(716) 283-9414
Occidental Chemical	(716) 278-7777
Washington Mills Plant	(716) 278-6700
Ontario Hydro-Electric, CA	(905) 357-0322

#### **Lake Ontario Water Intakes**

Olcott Harbor "ABANDONED"	(716) 778-8531
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#### **Railroads**

CSX	(814) 870-5210
Norfolk Southern	(440) 593-1607

## **HOW TO USE THIS GEOGRAPHIC RESPONSE PLAN**

### **Purpose of the Geographic Response Plan (GRP):**

Geographic Response Plans are used during the emergent phase of a spill which lasts from the time a spill occurs until the Unified Command is operating and/or the spill has been contained and cleaned up. Generally, the emergent phase lasts no more than 24 hours. The GRP constitutes the Federal On-scene Coordinator's and State On-scene Coordinators' priorities during the emergent phase of the spill. During the project phase of the spill which is carried out by the Unified Command, the GRP will continue to be used as a resource for the identification of environmentally sensitive areas. The GRP will be used in conjunction with input from the federal and state natural resource trustees.

The GRP prioritizes resources to be protected and allows for immediate and proper action. By using this plan, the first responders to a spill can avoid the initial confusion that generally accompanies any spill or pollution incident.

### **Strategy Selection and Environmentally Sensitive Areas**

Section 5 of this GRP contains complete strategy descriptions, response priorities, and sensitive area maps. The strategies depicted in Section 5 will be implemented after reviewing on scene information including, but not limited to, the location of the source of the spill, type of product spilled, weather conditions, and initial trajectories.

Control and containment at the source is the number one priority in any response. If, in the responder's best judgment, this type of response is not feasible, then the priorities identified in Section 5 of this plan take priority over control and containment of the source.

The successful implementation of the strategies contained in this GRP relies on accurate information regarding the trajectory of the spill. A booming strategy listed as a high priority would not necessarily be implemented if the spill trajectory and booming location did not warrant action in that area.

The strategies identified in this GRP have been designed for use with persistent oils and may not be suitable for other petroleum products or hazardous substances.

### **On Scene**

After determining which strategies will be used, assignments are made. Once developed, each responder, contractor, and/or cooperative will be provided with an individual strategy sheet and a map containing the information necessary for implementation of the strategy.

### **Standardized Response Language**

In order to avoid confusion in response terminology, this GRP uses standard Incident Command System terminology and strategy names which are identified in the Eastern Great Lakes Area Contingency Plan.

**Eastern Great Lakes Area Contingency Plan**  
**Annex II, Geographic Response Plan for**  
**Buffalo/Niagara Region - Western New York State**

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**1. Introduction.**

Geographic Response Plans (GRP) are intended to help the first responders to a spill avoid the initial confusion that generally accompanies any pollution incident. This document serves as the Federal and State On Scene Coordinators' priorities during a spill in the area covered by this GRP. This GRP has been approved by U.S. Coast Guard Marine Safety Office Buffalo and the New York State Department of Environmental Conservation. This document has been developed by the Eastern Great Lakes Area Committee. Changes are expected to this response plan as it is a working document and lessons learned through exercises and actual incidents will be used to update, revise and improve this plan. To submit comments, corrections, or suggestions regarding this GRP, please use Appendix C.

Federal law directs the President to ensure the removal of a discharge of oil or hazardous substances. Implementing Executive Orders and regulations delegate this responsibility to the U.S. Coast Guard for coastal areas and the U.S. Environmental Protection Agency for inland areas. Each agency has Federal On-Scene Coordinators (FOSCs), who coordinate and monitor emergency efforts by government at all levels to clean up such discharges. The Pre-designated FOSC for the Eastern Great Lakes is the Commanding Officer of U.S. Coast Guard Marine Safety Office Buffalo.

Emergency response actions by the FOSC are governed by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), which set the following national response priorities: safety of human life; stabilizing the situation to preclude the event from worsening; and containing and/or removing the spilled or released material to minimize the impacts on the environment.

Although FOSCs are "in charge" of response, Federal law places primary cleanup responsibility on the Responsible Party - the owner or operator of the facility, vessel, home, or vehicle (any source) from which the spill or release occurred. Further, under the NCP, FOSCs work cooperatively with other Federal, State, and local agencies with jurisdiction over or expertise in response activities. This cooperative effort is accomplished through the use of an Area Committee, including representatives from Federal, State, and local governments, which assists in preparing for emergency response through the development of the Area Contingency Plan (ACP). The ACP describes what needs to be protected in the event of an emergency, the response structure that will be used in an emergency, and what resources are available to respond.

The Eastern Great Lakes Area Committee is a spill preparedness and planning body made up of representatives from federal, state, and local emergency response agencies, industry, and local environmental groups. The Area Committee addresses issues regarding oil spill and hazardous substance responses as well as ensuring the protection of the sensitive environment of Lake Erie, Lake Ontario, and the Buffalo, Niagara, and St. Lawrence Rivers. Members of the Area Committee and its Geographic Subcommittees work together in prioritizing sensitive areas, developing response strategies, and conducting response exercises.

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**Annex II, Geographic Response Plan for**  
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**1. Introduction. (Con't)**

Annexes 1 through 4 of the Eastern Great Lakes Area Contingency Plan have been redesigned as Geographic Response Plans (GRPs). The GRPs have been developed through the use of Geographic Subcommittees to the Eastern Great Lakes Area Committee. The Geographic Subcommittees have included federal, state, and local emergency response experts, representatives from state and local government, industry, ports, environmental organizations, and response contractors. The participants in the development of this GRP have identified environmentally sensitive areas which require protection in the event of an oil or hazardous substance spill, developed response strategies, and identified logistical support for such response actions.

The first goal of the GRP is to identify environmentally sensitive areas requiring protection, response resources needed, site access and staging areas, response community contacts, and local environmental conditions that affect response strategies (e.g. physical features, hydrology, currents, winds, and climate).

The second goal of the GRP is to provide response strategies for ensuring the protection of sensitive areas in the event of an oil spill. Response strategies identify the amount and type of equipment necessary for implementation and the techniques to use in implementation. Response strategies are applied based on oil type, location of the source of the spill, oil trajectories, currents, winds, and prioritization of sensitive areas.

Finally, the sensitive area maps contained in this plan provide a ready resource for first responders. These maps identify sensitive areas and provide information regarding the area's location, resources at risk in the area, access, protection strategies, and the nearest staging area for carrying out response operations.

Included in the Logistical Support section of the GRP are:

- Locations of operations centers available for coordinating response efforts;
- Response equipment available in the area;
- Helicopter and air support;
- Local experts;
- Volunteer organizations;
- Wildlife rehabilitation;
- Damaged vessel safe havens; and,
- Vessel repair and cleaning facilities.

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## **2. Notifications**

Conducting proper notifications early in an incident is critical to a successful response. By contacting the agencies listed in section 2.1, a first responder ensures that additional personnel and resources are being activated to respond to the incident.

### **2.1 Agencies to be Notified**

The following is a list of organizations to be contacted in the event of an actual or threatened discharge of oil or release of hazardous substances. It is not necessary to contact all of the below organizations for every oil spill or hazardous substance release. Instead the list is intended to serve as a reminder of possible points of contact. All numbers listed in this section are 24 hour numbers for the respective agencies.

National Response Center .....	(800) 424-8802
USCG Marine Safety Office Buffalo .....	(716) 843-9525
New York State Department of Environmental Conservation .....	(800) 457-7362
Erie County Emergency Services .....	(716) 858-6578
Niagara County Office of Emergency Management .....	(716) 439-7310
Canadian Coast Guard .....	(800) 265-0237
Emergency Measures Ontario.....	(705) 329-6950

<b>If time is critical, the one notification that should be made is to the National Response Center (NRC). The NRC will then notify all applicable Federal and State agencies who have jurisdiction and responsibility for the affected area.</b>
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### **2.2 Required Information for Notifications**

The following information should be provided (if known) when contacting the agencies listed above:

_____	Source of the incident
_____	Name, address, and phone number of the Responsible Party
_____	Product spilled or released
_____	Quantity spilled or released
_____	Amount in the water
_____	Location and time of the incident
_____	Possible cause of the incident
_____	Waterbody affected
_____	On-scene weather
_____	Potential for additional discharge
_____	Cleanup actions being taken



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**2.3 Response Checklists**

Appendices A.1 and A.2 contain checklists for coordinating response activities. Appendix A.1 contains a checklist of activities to be used during a response to an oil spill. Appendix A.2 contains a checklist for use during hazardous materials incidents. These checklists identify the various steps to be taken during a response and provide a checklist to serve as a resource for emergency responders.

The first action in any response is to evaluate the situation and then to prioritize the actions which must be taken. Safety of human life must always be given top priority during every response. Stabilizing the situation to preclude the event from worsening is the next priority. Stabilizing the situation includes securing the source of the spill to prevent additional discharge. Other actions to protect environmentally sensitive areas and real property may be taken concurrently, but safety of life, protection of public health and welfare, and stabilization of the incident are the highest priorities.

### **3. Site Description**

The area covered by this GRP encompasses approximately 180 miles of shoreline between the Chautauqua/Erie County Line and the Niagara/Orleans County Line in New York. Included in this area are a wide variety of shoreline habitats on Lake Erie, the Niagara River, and Lake Ontario. The habitats include:

- Exposed rocky shores
- Bedrock bluffs
- Gravel beaches
- Mixed sand and gravel beaches
- Fine grained sand beaches
- Marshes and wetlands
- Submerged aquatic plant beds

#### **3.1. Physical Features**

**Lake Erie :** Lake Erie is the shallowest, most southerly and warmest of the Great Lakes (maximum depth is 62 m (200ft) with an average depth of 19m (62 ft). The greatest width of Lake Erie is 80.5 kilometers (50 miles). Lake Erie's length from the Niagara River to the Detroit River is 639 kilometers (400 miles). The primary inflow of water to Lake Erie is from the Detroit River at the west end of the lake, with the only outflow through the Niagara River.

The maximum fetch (the area of open water over which waves are generated by wind) is approximately 300 kilometers (185 miles). The coast is characterized by eroding cliffs (5-20 meters in height) (15-65 feet) and by four large depositional features (Presque Isle, Point Pelee, Rondeau and Long Point) that have extensive beach-dune and marsh systems. Approximately 21% of the shoreline of Lake Erie is protected by man-made structures (landfill, armourstone, and seawalls).

Most of the area surrounding the lake is either urbanized or farmed, although Lake Erie does contains a number of important wetland areas including Presque Isle, Long Point and Point Pelee. Based on geological characteristics, Lake Erie can be divided into three basins: western, central and eastern. The shallow western basin has a mean depth of only 7.4 m (24.3 ft) and contains many shoals, reefs and islands. The western basin is thought to have the most important fish spawning and nursery grounds in the entire lake; it is also a principal recreation area. The central basin is the largest of the basins, and has a mean depth of 18.5 m (60.7 ft). The eastern basin is the deepest, with a mean depth of 24.4 m (80 ft).

Lake Erie, which is shallow and elongated, is especially vulnerable to wind set-up/set-down fluctuations (storm surge effects) that produce large differences in water level at the eastern and western ends of the lake. This fact has implications for spills, as set-up can result in oil being beached above the normal wave swash zone.

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### **3.1. Physical Features (Con't)**

**Welland Canal:** The Welland Canal crosses 44 kilometers (27.3 miles) in a general north/south direction from St. Catharines (Port Weller Harbour) on Lake Ontario to Port Colborne Harbour on Lake Erie. The original Welland Canal was built from 1824 to 1829 and has been reconstructed three times to accommodate larger ships and allow that ship traffic to bypass Niagara Falls. The shoreline length of the canal, including both sides, is approximately 88 kilometers (55 miles), and vessels are raised 100 m (328 ft) using eight different locks to overcome the height of the Niagara escarpment. The canal banks consist largely of man-made materials. In the lower (northern) section, concrete blocks and natural sediments characterize much of the canal shore. The channel is generally 100 m (328 ft) wide and the banks are continuously affected by ship wakes.

**Niagara River:** The Niagara River joins Lake Erie and Lake Ontario. The entire shoreline length is 171 kilometers (107 miles), 58 kilometers (36 miles) along the Canadian shore and 113 kilometers (71 miles) along the U.S. side (including the shoreline of Grand Island). The river banks are a mixture of man-made structures, bedrock outcrops and beaches of poorly sorted sediments. From Lake Erie to Lake Ontario, the water level drops 99 m (326 ft): approximately one half of the drop occurs at Niagara Falls. The flow over the Falls is regulated by a series of five power plant diversions.

The average discharge of water from the river is nearly 7,000 cubic meters per second, and represents about 85% of the total inflow to Lake Ontario. The water current above the falls is approximately 7 to 9 knots and the river is shallow and rocky. The water current below the falls ranges from 3.6 to 4.5 knots. These swift currents, and the obvious hazard of the Falls complicates safe and effective spill response efforts on the river.

### **3.2 Hydrology**

In the event of a spill, wind and wave conditions must be monitored to assist in predicting the trajectory of a contaminant. When the trajectory and destination of a spill have been defined, the target shoreline should be assessed for shoreline transport. While overviews of circulation are not necessarily reliable measures of transport, the following information will assist response decision makers in assessing spill impact. An important consideration on the Great Lakes and connecting channels is the historical, annual and storm variation in water levels. This will partially dictate which part of the shore will be oiled during a spill event. The U.S. Army Corps of Engineers publishes a monthly bulletin of lake levels for the Great Lakes. This bulletin includes water levels for the previous year, the current year to date and a level projection for the next six months. The projection is based on the present conditions of the lake basin and anticipated future weather conditions.

### **3.3 Wind and Waves**

**Lake Erie, Niagara River and Welland Canal:** The general pattern of the surface water circulation in the central and eastern basins of Lake Erie is west to east and surface water circulation in the western basin is affected by the flow of water exiting the Detroit River and circling in the basin. Within 5 kilometers (3 miles) of the Niagara River, the hydraulic currents of the river predominate and a unidirectional flow towards the head of the river replaces the wind driven currents, however North or Northeast winds will create a reversal of the surface currents. Water entering the Niagara river from

Lake Erie will generally follow the main channel under the Peace Bridge, then run along the East and West side of Grand Island. Tributary water entering from the

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### **Annex II, Geographic Response Plan for Buffalo/Niagara Region - Western New York State**

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#### **3.3 Wind and Waves (Con't)**

shoreline will follow the east channel along the Buffalo/Tonawanda shoreline. Water surface temperatures on Lake Erie typically reach 24° C (75° F) in the summer.

The prevailing winds for the Lake Erie basin are from the southwest parallel to the long axis of the lake, so that maximum fetch distances (up to 300 kilometers/185 miles) coincide with the prevailing and dominant winds. Wave energy levels increase from west to east in the lakes. Winter wave heights on Lake Erie exceed 1 meter (3 ft) only 35% of the time, with rare maximums of 3-5 meters (10-16 ft) possible. On Lake Erie and the connecting channels, passing vessels will also create waves from their wakes.

#### **3.4 Ice Cover**

**Lake Erie :** Initial ice formation begins in the western end of Lake Erie and in Long Point Bay normally during the third week of December. Ice growth and spread accelerate in January with ice coverage generally attaining its maximum extent (90%) in February. In a mild year, ice will cover approximately 25% of Lake Erie's surface, while during severe winters, 100% coverage can occur. In sheltered harbors and bays, ice grows to a thickness of 25-45 cm (10-17.5 in) during a normal winter. Ridging and windrows of ice can achieve an aggregate ice thickness in excess of 20 meters (65 ft) during a single winter storm. Break up normally begins near the beginning of March with the lake becoming mostly open water by the third week of April. The eastern end of the lake is usually the last area to clear. Ice has persisted in the Buffalo area as late as the middle of May.

**Niagara River:** During the winter months ice jams at the Niagara River entrance. Ice booming from December to April prevents the movement of ice down the river. A second natural ice bridge forms in the Niagara gorge below Niagara Falls which at times has reached 24 m (78 ft) above the river level. Ice shields several hundred feet in width form around the perimeters of most Niagara River islands.

#### **3.5 Transportation Modes**

Oil and hazardous substances are transported through the Eastern Great Lakes Area by vessel, rail, pipeline and vehicle. They are also handled and/or stored at a variety of locations throughout the area. Each of these transportation, handling and storage systems presents a potential risk for an oil spill or hazardous substance release.

##### **3.5.a Vessel Traffic**

The Eastern Great Lakes Area serves as a major transportation route for marine traffic bound for other Great Lakes ports. In 2000, the St. Lawrence Seaway Development Corporation recorded 551 transits of oceangoing ships through the Seaway, of these 50 were tank vessels. These vessels carry a wide variety of cargoes, including bulk liquid cargoes such as oil products & hazardous substances, bulk solid cargoes such as grain, iron ore, coal, steel and break bulk cargo. The potential for a significant spill from one of these vessels in the open lakes is remote. However, as vessels enter port, the potential increases due to narrow port entrance channels. Potential for a spill or release increases when vessels transfer cargo to or from facilities.



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**3.5.a Vessel Traffic (Cont.)**

In the Eastern Great Lakes Area, the potential for an oil spill or hazardous chemical release resulting from a vessel casualty is highest in the Niagara River.

Both tank vessels and freighters make port calls to terminals along the Buffalo and Niagara Rivers. Freight vessels generally carry bulk materials, e.g. grain, sand, gravel, etc. to terminals along the Buffalo River and Buffalo and Lackawanna Ship Canals. Tank vessels primarily carry refined petroleum products, such as gasoline, diesel, # 6 fuel oil and heating oil to terminals along the Buffalo River, Lackawanna Ship Canal and the Niagara River. Asphalt is also carried in the Niagara River and coal tar in the Lackawanna Ship Canal.

The Outer Buffalo Harbor is protected by a concrete and rip rap breakwall. There are two entrance channels through the breakwater. The North Entrance Channel is 358-411 m (1175-1350 ft) wide and provides access to terminals along the Niagara and Buffalo Rivers and the Buffalo Ship Canal. The South Entrance Channel opens at 366 m (1200 ft) and narrows to 122 m (400 ft). This entrance provides access to the Lackawanna Ship Canal. The bottom for both entrance approaches is primarily sand & mud. Vessels bound for Niagara River terminals transit the Black Rock Canal. The canal is 61-122 m (200-400 ft) wide and in many locations bounded by concrete breakwaters. The bottom is primarily sand and mud. Because of the confined nature of the canal, the greatest potential for a significant spill in the Buffalo area would result from a vessel casualty as the vessel transits the Black Rock Canal.

**3.5.b Marine Transportation Related Facilities**

There are five marine transportation facilities in the Eastern Great Lakes Area that transfer, handle or store petroleum. Three are located in the Buffalo/Niagara River Subarea on the Buffalo or Niagara Rivers. Two are located in the Rochester/Oswego Subarea in the Port of Oswego. These facilities store large quantities of petroleum products in fixed tanks on land. The potential for a spill resulting from a tank rupture is remote because the facilities have fixed containment (generally earthen dikes) surrounding the tanks. The most significant potential for an oil spill occurs during cargo handling operations.

**3.5.c Mobile Marine Transportation-Related Facilities**

Mobile marine transportation-related facilities include tank trucks that transfer oil products to or from a vessel. These trucks generally have a capacity of four to nine thousand gallons. Spills from a mobile facility generally are the result of a traffic accident. Since there is no fixed containment around these facilities it is possible that the released product may enter the water. There is also a potential for an oil spill to occur during cargo handling operations to or from a vessel.

**3.5.d Highways**

Highway transportation of petroleum products and hazardous substances through the Eastern Great Lakes is also extensive. The interstate highways, I-90 (NY State Thruway), I-190, I-290, and state route 5 are used extensively by trucks passing through the area and distributing these products locally.

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**3.5.e Railroads**

An extensive variety of hazardous substances are transported by rail through the Eastern Great Lakes Area. Of particular concern are the numerous river, canal, and creek crossings. The major rail system in the area and the waterbodies they cross are:

Rail Carrier	Waterway/location	Bridge #(Milepost)
Norfolk (Cleveland Line)	Cattaraugus Creek / Irving, NY	28.4
Norfolk (Cleveland Line)	Mud Creek / Farnham, NY	25.7
Norfolk (Cleveland Line)	Delaware Creek / Lake Erie Beach, NY	23.4
Norfolk (Cleveland Line)	Big Sister Creek / Angola, NY	22.1
Norfolk (Cleveland Line)	18 Mile Creek / Evans, NY	15.8
Norfolk (Cleveland Line)	Rush Creek / Blasdell, NY	7.6
Norfolk (Cleveland Line)	Smokes Creek / Lackawanna, NY	5.9 & 5.8
Norfolk (Cleveland Line)	Buffalo River / Buffalo, NY	2.5
CSX (Chicago Main Line)	Cattaraugus Creek / Irving, NY	27.00
CSX (Chicago Main Line)	Mud Creek / Farnham, NY	24.40
CSX (Chicago Main Line)	Delaware Creek / Lake Erie Beach, NY	22.75
CSX (Chicago Main Line)	Big Sisters Creek / Angola, NY	20.94
CSX (Chicago Main Line)	18 Mile Creek / Evans, NY	15.15
CSX (Chicago Main Line)	Rush Creek / Blasdell, NY	6.94
CSX (Chicago Main Line)	Steel Creek / Blasdell, NY	6.01
CSX (Chicago Main Line)	Smokes Creek / Lackawanna, NY	5.27
CSX (Chicago Main Line)	Tifft Creek / Lackawanna, NY	3.15
CSX (Chicago Main Line)	Buffalo River / Buffalo, NY	1.76
CSX (A I.T.)	Scajacquada Creek / Depew, NY	
1.56		
CSX (Belt Line Branch)	Scajacquada Creek / Buffalo, NY	2.28
CSX (Bridge Branch Line)	Gill Creek / Niagara Falls, NY	25.11
CSX (Chicago M/L Track 3)	Buffalo Creek / Buffalo, NY	1.71
CSX (Lockport I.T.)	Sawyer Creek / Tonawanda, NY	16.61
CSX (Niagara Branch)	Scajacquada Creek / Black Rock, NY	6.34
CSX (Niagara Branch)	Ellicott Creek / Tonawanda, NY	12.82
CSX (Niagara Branch)	Erie Barge Canal / Tonawanda, NY	13.37
CSX (Niagara Branch)	Gratwick Creek / N. Tonawanda, NY	16.31
CSX (Niagara Branch)	Black Creek / N. Tonawanda, NY	18.69
CSX (Niagara Branch)	Sawyer Creek / N. Tonawanda, NY	19.76
CSX (Niagara Junction R/R)	Gill Creek / Niagara Falls, NY	0.30 & 0.35 & 3.60
CSX (Niagara Junction R/R)	Pine Creek / Niagara Falls, NY	1.74
CSX (Cross Cut Branch)	Scajacquada Creek / Buffalo, NY	1.12
CSX (Erie I.T.)	Black Creek / N. Tonawanda, NY	17.97
CSX (Erie I.T.)	Sawyer Creek / N. Tonawanda, NY	19.08
CSX (Erie I.T.)	Bergholtz Creek / Wheatfield, NY	19.30
CSX (Erie I.T.)	Cayuga Creek / Wheatfield, NY	20.51

#### **4. Environmental Resource Descriptions**

##### **4.1 Fish and Wildlife**

###### **4.1.a Birds and Waterfowl**

The area covered in this GRP is part of the Atlantic flyway. The Atlantic flyway refers to the migratory track for birds migrating each year between Canada and the southern US. The most significant areas are the eastern end of Lake Erie, the Niagara River, and the tributary waterways within the Buffalo area. Migrating birds, including several species of concern, rest, feed, and nest within this area. Over 250 species of birds have been recorded; at least 24 are listed as species of special concern. The Niagara River corridor has been designated an important bird area of international significance by the National Audubon Society

###### **4.1.b Fish**

Special concern must be given to identified spawning areas during a pollution incident. The impact of an oil spill on a spawning and nursery area within or adjacent to a creek channel especially during the spawning season may have a disastrous effect on fish species supporting the food chain. The muskellunge and bass fisheries are of particular importance. Several creeks along the coastline of eastern Lake Erie, western Lake Ontario, and the Niagara River have been identified as spawning areas for chinook and coho salmon. The eastern waters of Lake Erie, western waters of Lake Ontario, and the Niagara River contain over 80 known species of fish.

###### **4.1.c Mammals**

The mammal inventory of Buffalo/Niagara Region - Western New York State includes several species of mammals. The mammals included in this inventory are bats, beavers, cottontail rabbits, chipmunks, deer, ermines, fox, mice, lemmings, moles, minks, muskrats, opossums, raccoons, rats, shrews, skunks, squirrel, weasels, and woodchucks.

###### **4.1.d Reptiles and Amphibians**

The coastline of Lake Erie, Lake Ontario, and the Niagara River is habitat to several species of salamanders, frogs, toads, turtles and snakes. These species are most susceptible to the effects of a pollution incident during spring, summer, and fall seasons when these species are most active.

##### **4.2 Other Resources**

The coastline of Lake Erie, Lake Ontario, and the Niagara River contains numerous species of flora and fauna. Several of these species are endangered or threatened. Due to the potential impact response operations may have on submergent and emergent vegetation, the NY DEC and ACOE must be included in any decision regarding mechanical removal of contaminated vegetation.

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### **4.3 Endangered or Threatened Species**

There are three levels of protection afforded to plants and wildlife. The three levels, from highest to lowest levels of protection: endangered, threatened, and species of special concern.

Endangered species are protected under state and federal law. The catching, taking, killing, possessing, importing or exporting, selling, offering for sale or purchasing, of any individual of these species, alive or dead, or any part thereof, without special permit is prohibited. These species receive the highest protection possible from the state and federal government. The endangered species identified for the geographic areas described in this GRP are as follows:

#### **4.3.a Endangered Species**

##### **4.3.a.1 Fish**

Shortnose Sturgeon (*Acipenser brevirostrum*)  
Lake Sturgeon (*Acipenser fulvescens*)  
Northern Brook Lamprey (*Ichthyomyzon fossor*)  
Gravel Chub (*Erimystax x-punctatus*)  
Eastern Sand Darter (*Ammocrypta pellucida*)  
Longnose Sucker (*Catostomus catostomus*)  
Spotted Darter (*Etheostoma maculatum*)  
Tippecanoe Darter (*Etheostoma tippecanoe*)  
Longhead Darter (*Percina macrophala*)  
Northern Riffleshell Mussel (*Epioblasma torulosa rangiana*)  
Clubshell Mussel (*Pleurobema clava*)  
Pugnose Shiner (*Natropis anogenus*)  
Gilt Darter (*Percina evides*)  
Spoonhead Sculpin (*Cottus ricei*)  
Deepwater Sculpin (*Myoxocephalus thompsoni*)

##### **4.3.a.2 Reptiles and Amphibians**

Tiger Salamander (*Ambystoma thompsoni*)  
Massasauga Rattlesnake (*Sistrurus catenatus*)  
Bog Turtle (*Clemmys muhlenbergii*)  
New Jersey Chorus Frog (*Pseudacris feriatum kalmi*)  
Coastal Plain Leopard Frog (*Rana utricularia*)  
Kirtland's Snake (*Clonophis kirtlandii*)  
Eastern Mud Salamander (*Pseudotriton m.montanus*)

##### **4.3a.3 Birds and Waterfowl**

Piping Plover (*Charadrius melodus*)  
Kirtland's Warbler (*Dendroica kirtlandii*)  
Golden Eagle (*Aquila chrysaetos*)  
Peregrine Falcon (*Falco peregrinus*)  
Black Rail (*Laterallus jamaicensis*)

Roseate Tern (*Sterna dougallii dougallii*)  
Black Tern (*Chlidonias niger*)

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**4.3.a.4 Mammals**

Allegheny Woodrat (*Neotoma magister*)

**4.3.b Threatened Species**

Threatened species are protected under state and federal law. The catching, taking, killing, possessing, importing or exporting, selling, offering for sale or purchasing, of any individual of these species, alive or dead, or any part thereof, without special permit, is prohibited. The threatened species identified for the geographic areas described in this GRP are as follows:

**4.3.b.1 Fish**

Ohio Lamprey (*Ichthyomyzon bdellium*)  
Mountain Brook Lamprey (*Ichthyomyzon greeleyi*)  
Atlantic Sturgeon (*Acipenser oxyrinchus*)  
Mountain Madtom (*Nosturus eleutherus*)  
Northern Madtom (*Noturus stigmosus*)  
Burbot (*Lota lota*)  
Bluebreast Darter (*Etheostoma caeruleum*)  
Channel Darter (*Percina copelandi*)  
Gilt Darter (*Percina eides*)  
Mooneye (*Hiodon tergisus*)  
Lake Chubsucker (*Erimyzon sucetta*)  
Mud Sunfish (*Acantharchus pomis*)  
Longear Sunfish (*Lepomis megalotis*)

**4.3.b.2 Reptiles and Amphibians**

Blanding's Turtle (*Emydoidea blandingii*)  
Timber Rattlesnake (*Crotalus horridus*)  
Green Salamander (*Aneides aeneus*)  
Red-bellied Turtle (*Pseudemys rubriventris*)  
Rough Green Snake (*Opheodrys aestivus*)

**4.3.b.3 Birds and Waterfowl**

Bald Eagle (*Haliaeetus leucocephalus*)  
Pied-billed Grebe (*Podilymbus podiceps*)  
Least Bittern (*Ixobrychus exilis*)  
Northern Harrier (*Circus cyaneus*)  
King Rail (*Rallus elegans*)  
Upland Sandpiper (*Bartramia longicauda*)  
Common Tern (*Sterna hirundo*)  
Least Tern (*Sterna antillarum*)  
Sedge Wren (*Cistothorus platensis*)

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**4.3.b.4 Mammals**

None noted.

**4.4 Historic Sites**

Historic landmarks are easily identifiable and their locations are maintained on public lists by the State Historic Preservation Office for Pennsylvania and New York. Less easily identified and more difficult to detect are archeological sites. Any earth-disturbing activity associated with an oil spill cleanup could potentially involve an archaeological site. Any response which requires excavation and/or soil removal should be coordinated with the State Historic Preservation Office at (518) 237-8643.

The following is a list of the historic sites identified in Erie and Niagara Counties in New York State. If a pollution incident occurs in the vicinity of a historic site, the State Historic Preservation Office should be contacted as soon as possible to ensure adequate protection measures and preservation techniques are employed in and around the site. The historic sites identified along the shoreline in Erie and Niagara Counties are:

<b>Art Park in Lewiston</b> Foot of South Fourth Street Lewiston, NY	<b>Old Fort Niagara &amp; Fort Niagara Light</b> Fort Niagara State Park Youngstown, NY
<b>30 Mile Point Lighthouse</b> Golden Hill State Park Lower Lake Road Somerset, NY	<b>Spaulding-Sidway Boathouse</b> Off of the West River Pkwy Just North of the Beaver Is. State Park Grand Island, NY
<b>Buffalo Main Light</b> <b>Croaker</b> U.S. Coast Guard Base 1 Fuhrmann Blvd Buffalo, NY	<b>USS Sullivans, USS Little Rock, USS</b>  Naval & Servicemen's Park One Naval Pak Cove Buffalo, NY
<b>Buffalo North Breakwater South End Light</b> Located just south of the Horseshoe Reef at the Buffalo River entrance channel.	<b>South Buffalo North Side Light</b> Located just north of Stony Point at the entrance to the Lackawanna Ship Canal.
<b>Riverside Park and</b> <b>St. Frances Xavier Cemetery</b> Off of Niagara St., North of Squaw Is. North Buffalo, NY	<b>Niagara Reservation</b> Prospect Park Niagara Falls, NY

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## **5. Sensitive Area Maps**

This section includes ten maps identifying the environmentally sensitive areas in the Buffalo/Niagara Region of Western New York, and Canada. Each sensitive area is identified on a chartlet by a site number and an icon. Site numbers are assigned from west to east. On maps 1, 2, 9, & 10, icons are used to identify the specific sensitive area. Maps 3-8 were produced by Environment Canada and indicate both Canadian and U.S. sensitive areas. Numbered exclamation points on these maps indicate an area of environmental significance, with the specific site being displayed by an icon. Additional sensitive area maps can be found in the “Sensitivity of Coastal Environments and Wildlife to Spilled Oil – Lake Erie & Lake Ontario System Atlases”, produced by NOAA, and “Environmental Sensitivity Atlas for Lake Erie (including the Welland Canal) and the Niagara River Shorelines”, produced by Environment Canada. Copies of both Atlases are maintained at U. S. Coast Guard Marine Safety Office Buffalo.

Maps 1, 2, 9, & 10 contained within this geographic response plan have been reproduced under a limited license from the DeLorme Street Atlas USA. To obtain copies of Street Atlas USA contact DeLorme at (800) 511-2459 or by mail at: Two DeLorme Drive, P.O. Box 298, Yarmouth, ME 04096.

### **5.1 Sensitive Area Protection Criteria**

Sensitive areas in the Eastern Great Lakes Area include: water intakes, bird and wildlife refuge areas, beaches, parks, marinas and coastal tourist establishments. Detailed descriptions of these areas including protection strategies are presented in the site summary sheets contained in the sensitive area description sheets contained in this section. Each sensitive area has been assigned a protection priority value based on the below criteria.

**Rating: When two or more sensitive areas are potentially going to be impacted and a decision must be made regarding which area to protect due to limited availability of containment boom, the sensitive area with the HIGHER value is to be protected first.**

### **5.2 Sensitive Area Prioritization Matrix**

The criteria for assigning protection priority values to sensitive areas incorporated two existing systems: New York State's Significant Coastal Fish and Wildlife Habitats Program (SCFWHP) and NOAA/USCG's Guidelines for the Development of Sensitive Area Protection Strategies (GDSAPS). There are no prioritization indices for the Canadian sites.

New York State's SCFWHP assigned significance values are based upon the following factors: Population Level (PL), Species Vulnerability (SV), Ecosystem Rarity (ER), Human Use (HU) and Replaceability (R). Pennsylvania does not have a similar system. However, in order to apply a consistent system throughout the Eastern Great Lakes Area, the Erie subcommittee has agreed to apply the NY State program to sensitive areas in Pennsylvania.

**5.2 Sensitive Area Prioritization Matrix (Con't)**

**THE SENSITIVE AREA INFORMATION HAS BEEN CLASSIFIED AS FOR OFFICIAL  
USE ONLY, AND THEREFORE REMOVED FROM THIS DOCUMENT. IF YOU OR YOUR  
ORGANIZATION NEEDS THIS INFORMATION, PLEASE SUBMITT A WRITTEN  
REQUEST TO:**

**COMMANDING OFFICER  
U. S. COAST GUARD MARINE SAFETY OFFICE  
1 FURHMANN BLVD.  
BUFFALO, NY 14203**

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**6. Logistical Support**

**6.1 Emergency Operations Centers**

**New York State Emergency Management Organization (SEMO)** has several Emergency Operation Centers (EOC) located in the Eastern Great Lakes area. The EOCs are removed from the lakes and rivers; however, they have telephone capabilities and may be used to establish a temporary command post until a more suitable location is identified. Requests to activate a SEMO EOC should be directed to the appropriate Regional Director. The SEMO EOCs in this area are located:

SEMO Region V, Emergency Operation Centers (315) 331-4880

(a) Western District EOC  
221 State St.  
Batavia, NY

(b) Lake District EOC  
144 Route 31 East  
Newark, NY

**Erie County Emergency Services** has an Emergency Operations Center (EOC) located at 95 Franklin Street in Buffalo, New York. Requests to activate the EOC should be directed to the Erie County Emergency Services at (716) 858-6578.

Number of persons EOC can accommodate:	15
Private meeting area for senior officials:	Yes
Parking available:	Limited, additional parking available in emergency
Limited EOC access	Yes, security guards
Number of installed phone/fax lines:	10 / 1 fax line
Radio communications/capabilities:	Yes, local gov't, fire, police and SEMO
Food preparation facilities on site:	Yes, cafeteria in building
Hotels/lodging in vicinity:	Yes, hotels in vicinity

The Erie Co.'s EOC is located in the Rath Building, on Franklin & Pearl Streets in downtown Buffalo.

**Buffalo Fire Department** has an Emergency Operations Center (EOC) located at 195 Court Street in Buffalo, NY. Requests to activate the EOC should be directed to the Buffalo F.D. at (716) 851-5510.

Number of persons EOC can accommodate:	30
Private meeting area for senior officials:	Yes
Parking available:	Limited, additional parking available in emergency
Limited EOC access	Yes, Buffalo Police Department
Number of installed phone/fax lines:	5 / 1 fax line
Radio communications/capabilities:	Yes, local gov't, fire, and police
Food preparation facilities on site:	Yes
Hotels/lodging in vicinity:	Yes, hotels in vicinity

The Buffalo F.D.'s EOC is located in Buffalo Fire Headquarters located at 195 Court Street in downtown Buffalo.



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**6.1 Emergency Operations Centers (Con't)**

**Niagara County Office of Emergency Services.** Niagara County's primary Emergency Operations Center (EOC) is located at 5526 Niagara Street Extension in Lockport, New York. Requests to activate the EOC should be directed to the Niagara County Emergency Services at (716) 439-7310.

Number of persons EOC can accommodate:	20
Private meeting area for senior officials:	Yes, two rooms
Parking available:	Yes
Limited EOC access	Yes, controlled by Deputy personnel
Number of installed phone/fax lines:	4 / 1 dedicated fax line
Radio communications/capabilities:	Yes, local gov't, fire, police, County Sheriff and SEMO
Food preparation facilities on site:	Yes, kitchen on-site
Hotels/lodging in vicinity:	Yes, hotels in vicinity

Directions to EOC: Niagara County's EOC is located in the basement of the County Office Building located on Niagara Street in Lockport, New York, one block north of route 31 and two blocks west of Route 278.

**Hotels that may also serve as Potential Command Posts.** Various hotels located throughout the Lake Erie Subarea may serve as command posts. The following hotels have been identified as potential command posts because of their proximity to navigable waters, restaurants, and availability of conference rooms that may be used during a response and sufficient parking capabilities.

<b>Adams Mark Hotel</b>	(716) 845-5100
120 Church Street	Fax: 845-5377
Buffalo, NY 14202	

Number of persons EOC can accommodate:	150+
Private meeting area for senior officials:	Yes
Parking available:	Yes, 90-100 parking spaces in hotel garage
Limited EOC access:	If needed
Food preparation facilities:	Yes

Directions: I-90 to I-190 to Church Street in Buffalo. Hotel is on right at first light after exit.

<b>Holiday Inn</b>	(716) 773-1111
100 Whitehaven Road	Fax: 773-9386
Grand Island, NY	

Number of persons EOC can accommodate:	75-100
Private meeting area for senior officials:	Yes, 14
Parking available:	Yes, 90-100 parking spaces in hotel garage
Limited EOC access:	If needed
Food preparation facilities:	Yes

Directions: I-90 to I-290 to I-190 North, After going over toll bridge, go to Whitehaven Road exit. Turn right and go to end of Whitehaven Road.

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**6.1 Emergency Operations Centers (Con't)**

**Holiday Inn** (716) 282-2211  
231 Third Street Fax: 282-2748  
Niagara Falls, NY 14303

Number of persons EOC can accommodate:	100
Private meeting area for senior officials:	Yes, 3 rooms
Parking available:	Yes
Limited EOC access:	If needed

Directions: I-90 to I-190 North. Cross Grand Island and take Robert Moses Parkway downtown.

**6.2 Response Equipment**

**6.2.a U.S. Coast Guard Response Equipment**

**Marine Safety Office Buffalo** - (1) pollution response trailer, equipped with 600 feet of 12" river containment boom, sorbent pads, hand tools, and associated anchoring and towing equipment. Response time to any area within the Buffalo/Niagara Region is estimated to be within 1-2 hours.

**ANT Buffalo** - 49ft TANB with 295 hp engines and one 21ft john boat with a 155 hp engine. These boats are capable of deploying containment boom in the event of a pollution incident.

**Station Buffalo** - has a 47ft Utility Boat(UTB) with 435 hp engines and one 24 ft Rigid Hull Inflatable(RHI) with a 200 hp engine. These boats are capable of deploying containment boom in the event of a pollution incident.

**Station Niagara** - 30ft UTM and one 21ft RHI with a 150 hp engine. These boats are capable of deploying containment boom in the event of a pollution incident. The station also has (1) pollution response trailer, equipped with 1000 feet of 24" harbor containment boom, sorbent pads, hand tools, and associated anchoring and towing equipment. Response time to any area in the Buffalo/Niagara Region is estimated to be within 1-2 hours.

**6.2.b State and Local Agency Response Equipment**

**Buffalo Fire Department** - Has a 17 member HAZMAT Team capable of fully encapsulated (level A) entry to provide life/safety/rescue entry, assess incident and provide back-up for industry entry teams. Hazmat Team is capable of all levels of entry and has a portable DECON unit. Requests for assistance should be directed to the Buffalo Fire Department at (716) 851-4306 or 911.

**Erie County** - Has a 45 member HAZMAT Team capable of fully encapsulated (level A) entry to provide life/safety/rescue entry, assess incident and provide back-up for industry entry teams. Requests for assistance should be directed to the Erie County office at (716) 858-6578.



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**6.2.b State and Local Agency Response Equipment (Con't)**

**South Towns Hazardous Material Response Team** - A 43 member volunteer HAZMAT Team capable of fully encapsulated (level A) entry to provide life/safety/rescue entry, assess incident and provide back-up for industry entry teams. Also have a mobile command bus for use as on-site command post. Requests for assistance should be directed to the Erie County office at (716) 858-6578.

**Brighton Volunteer Fire Department Hazardous Material Response Team** - A 22 member volunteer HAZMAT Team capable of fully encapsulated (level A) entry to provide life/safety/rescue entry, assess incident and provide back-up for industry entry teams. Hazmat Team is capable of all levels of entry and has a portable Mobile Command Post & DECON unit. Requests for assistance should be directed to the Town of Tonawanda dispatch office at (716) 876-1212.

**Niagara County** - Has a 50 member volunteer HAZMAT Team capable of Level B to provide life/safety/rescue entry, assess incident and provide back-up for industry entry teams. Hazmat has a portable DECON unit. Requests for assistance should be directed to Niagara County Sheriff's Department at (716) 438-3393.

**Town Of Lewiston Hazardous Materials Response Team** - Has a 30 member volunteer HAZMAT Team capable of Level B responses. Requests for assistance should be directed to the Lewiston Fire Department at (716) 754-8219.

**Niagara Falls Air Reserve Base Fire Department** - A 64 member paid fire department will respond "off base" at the request of local fire chiefs. Fire Department has 4 foam crash trucks, confined space rescue gear, and fully equipped hazmat trailer. Personnel are capable of Level A response, and are also trained for Nuclear, Biological, or Chemical (NBC) terrorism response. Requests for assistance should be directed to the Air Base at (716) 236-2086.

**6.2.c Commercial Response Contractors Equipment**

**Elmwood Tank Cleaning Co., Inc.**  
200 Fire Tower Drive  
Tonawanda, NY 14150

(716) 694-0106  
Fax: 694-0930

Equipment/Capabilities

1,600' of 18" containment boom

Large supply of sorbent boom, roll, sweep, pads, etc.

Variety of pumps & hoses;

(2) Vac trucks, 1,700 gallon capacity ea. @ 100 GPM

(1) 14' Johnboat;

Variety of power generators, portable lighting, steam generators, cherry pickers, hydraulic boom truck

Response Information

Response time to Buffalo/Niagara area is 30 min. 24 hrs/day.

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**6.2.c Commercial Response Contractors Equipment (Con't)**

**Marine Pollution Control**

8631 W. Jefferson  
Detroit, MI 48209

(800) 521-8232  
Fax: (313) 849-1623

Equipment/Capabilities

15,000' - 18" containment boom;  
Skimmers (6-suction, 1-self sustaining barge w/vacuum pumps)  
Pumps (types: 3 Acid, 8 Self sustaining., 3 D.D.(double diaphragm) 3 self sustaining(stainless steel)  
Vac Trucks (7 total, 1 of them is self sustaining)  
Vac Trailers (5 w/ 5k gallon cap., 2 of them are self sustaining)  
Platform work barge; 1 w/ a bladder (2500 cap.)  
Boats (types: 24' & 20' alum. Hull, 17' & 13' whalers, 26' Sea Ray, 19' four winds, 6 john boats  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 10 hrs.

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**OP-TECH Environmental Services, Inc.**

108 Sawyer Ave.  
Tonawanda, NY 14150

(716) 873-7680  
Fax: 873-7807  
24hr: 800-225-6750

Equipment/Capabilities:

1000' - 12" containment boom  
(1) Vac truck, 3500 gal. cap., S.S.  
Pumps: (2) D.D., one of them is S.S.)  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 1 hr, 24 hrs. a day.

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**SLC Environmental Services**

295 Mill Street  
Lockport, NY 14094

(716) 433-0776  
Fax: 433-0776

Equipment/Capabilities:

400' - 18" containment boom;  
(1) 16' johnboat  
(1) Vac trucks - 1,000 gallon capacity;  
Portable pumps: (2) D.D., (6) Submersable(2 of them are S.S.), (12) Trash type of various sizes  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 1 hour, 24 hrs/day.

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**6.2.c Commercial Response Contractors Equipment (Con't)**

**PETROCLEAN, Inc.**

P.O. Box 1815  
Warren, PA 16366

(412) 279-9556  
(814) 726-1751 (24hr)  
Fax: (412) 279-7082

Equipment/Capabilities

2000' - 18" containment boom  
Member Great Lakes Co-op (50,000 ft of containment boom available through Co-op);  
(7) Vac trucks ranging from 2,000 - 5,000 gallon capacity;  
Dedicated 7 man hazmat team;  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 3 1/2 hours, 24 hrs/day.

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**Browning-Ferris Industries of New York, Inc.**

4735 West Lake Road  
Dunkirk, New York 14048

(716) 366-4060 (day)  
(716) 672-5022 (24 hr)  
Fax: (716) 366-7300

Equipment/Capabilities

150' - 6" containment boom;  
(6) Vac trucks @ 3,000 gallon capacity ea. @ 250 gpm;  
Variety of sorbent materials

Response Information

Response time to Buffalo/Niagara area is 2 1/2 hours.

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**OHM Remediation Services Corp.**

10 Ward Road  
North Tonawanda, NY 14120

(716) 693-8800  
Fax: 693-8001

Equipment/Capabilities

400' - 12" containment boom;  
300' - 18" containment boom;  
12' John boat and 16' John Boat;  
Portable tank (6000 gal capacity);  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 30 minutes, 24 hrs/day.



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**6.2.c Commercial Response Contractors Equipment (Con't)**

**Environmental Products and Services**

170 Cooper Avenue, Suite 100  
Tonawanda, NY 14150

(716) 447-4700  
Fax: 447-4708

Equipment/Capabilities

300' of 9" containment boom;  
500' of 12" containment boom;  
Oil skimmer;  
Pumps (Submersible, Diaphragm, Trash);  
Vac Trucks (2) and Recovery Tanks (3);  
12' John boat and 16' John Boat;  
Sorbent boom, pads.

Response Information

Response time to Buffalo/Niagara area is 30 minutes, 24 hrs/day.

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**Op-Tech Environmental Group**

6392 Deere Road  
Syracuse, NY 13206

(315) 463-1643  
Fax: 463-9764

Equipment/Capabilities

2,500' of 12" containment boom;  
Skimmers (1-suction, 1-self sustaining barge w/vacuum pumps)  
Pumps (Double Diaphragm, 8");  
Vac Trucks (4 - 1 stainless);  
Platform work barge;  
12' johnboat and 24' pontoon boat;  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 3 hours, 24 hrs/day.

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**Clean Harbors**

32 Bask Road  
Glenmont, NY 12077

(800) 633-0666  
Fax: (518) 434-9118

Equipment/Capabilities

2,500' of 18" containment boom;  
Skimmers (1-suction, 2-self sustaining barge w/ vacuum pumps);  
Pumps (types: (1) D.D., (2) S.S., (5) steel, (1) acid);  
Vac Trucks (4 total, 3 of them are S.S.);  
Boats (types: (3) 12' alum. hull, (1) johnboat, & (1) 17' skiff);  
Sorbent boom, pads, etc.

Response Information

Response time to Buffalo/Niagara area is 5 hours.

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**6.3 Helicopter and Air Support**

**Erie County Sheriff** (716) 662-5554  
1 Sheriff's Drive Fax: 662-8477  
Orchard Park, NY 14127

**New York State Police** (716) 345-9126  
4525 West Saile Drive Fax: 344-2635  
Batavia, NY 14020

**Coast Guard Air Station Detroit** (810) 307-6700  
Selfridge ANGB, MI 48045-5011 Fax: 307-6705

**6.4 Local Experts**

**6.4.a Marine Surveyors**

**Bartnett Marine Services** (716) 624-1380  
52 Ontario Street Fax: 624-4168  
Honeye Falls, NY 14472

**Gilham Robert Associates. Ltd.** (716) 649-8800  
184 Highland Avenue Fax:: 649-2700  
Hamburg, NY 14075

**McGroder Marine Surveyors** (716) 935-7848  
P.O. Box 405 Fax: 934-7849  
Silver Creek, NY 14221

**6.4.b Salvage Companies**

**Wheelhouse Marine Inc.** (716) 773-7025  
3049 Grand Island Boulevard Fax: 773-7025  
Grand Island, NY 14072

**6.5 Volunteer Organizations**

**American Red Cross**

**Buffalo/Erie County** (716) 886-7500  
786 Delaware Ave. Fax: 878-2345  
Buffalo, NY 14209

**Niagara County** (716) 285-6938  
719 Ashland Ave. Fax: 285-9025  
Niagara Falls, NY 14301



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**6.5 Volunteer Organizations (Con't)**

**Salvation Army**

<b>Buffalo/Erie County area</b> 960 Main St. Buffalo, NY 14202	(716) 883-9800 Fax: 888-6299
<b>Niagara County area</b> 7018 Buffalo Ave. Niagara Falls, NY 14304	(716) 283-7697, only M-F (9am-4pm) Fax: 283-7281 After hours, weekends, or holidays call Buffalo

**Environmental Organizations**

<b>Great Lakes United</b> Buffalo State College, Cassety Hall 1300 Elmwood Avenue Buffalo, NY 14222	(716)886-0142 Fax: 886-0303
<b>Friends of the Buffalo River</b> 933 Edgewater Drive Buffalo, NY 14228	(716) 691-4934 Fax: no fax
<b>Beach Sweep</b> 466 Alfred Drive Angola, NY 14006	(716) 549-4330 Fax: no fax
<b>Buffalo River Rats</b> Beechwood Road Derby, NY 14047	(716) 947-5367 Fax: no fax
<b>Niagara County Environmental Management Council</b> 59 Park Ave. Lockport, NY 14094	(716) 439-7268 Fax: 439-7267

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**6.6 Wildlife Rehabilitation**

**Hawk Creek Wildlife Rehabilitation Center** (716)652-8646  
PO Box 662  
East Aurora, NY 14052

**Messinger Woods** (716) 648-8091  
PO Box 508  
Orchard Park, NY 14127

**Second Chance Wildlife Rehabilitation Center** (716) 625-8189  
556 Mapleton Rd.  
Lockport, NY 14094

**Niagara County SPCA** (716) 731-4368  
2100 Lockport Rd. Fax 731-7084  
PO Box 200 LPO  
Niagara Falls, NY 14304

**Tri-State Bird Rescue** (302) 737-9543  
110 Possum Hollow Road 24hr: 737-7241  
Newark, DE 19711 Fax: 737-9562

**International Bird Rescue Research Center** (510) 841-9086  
100 Possum Hollow Road  
Berkley, CA

**International Wildlife Research** (972) 377-9001  
7210 Oak Street Fax: 377-9001  
Frisco, TX 75034 Pager: 1-800-SKYPAGE, Pin#5464375

**6.7 Damaged Vessel Safe Havens**

**Gateway Trade Center** (716) 634-5845  
at the Ridge Rd. exit, off of Route 5 Fax: 826-1342  
Lackawanna, NY 14218

**6.8 Vessel Repair and Cleaning Facilities**

**Metro Machine** (814) 452-0330  
P.O. Box 1850 Fax: 459-9788  
Erie, PA 16507

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**Appendix A.1**  
**Oil Spill Response Checklist**

The items listed below constitute a reference to aid experienced response personnel in addressing the full scope of necessary response related activities associated with an oil spill. The checklist is laid out by category of activities and is not meant to be a chronological listing of response actions.

**Phase I: Discovery or Notification**

- \_\_\_\_\_ Collect incident specifics:
  - \_\_\_\_\_ Reporting name & phone number
  - \_\_\_\_\_ Source of incident/related specifics
  - \_\_\_\_\_ Product spilled
  - \_\_\_\_\_ On-Scene Weather
  - \_\_\_\_\_ Amount/potential amount discharged
  - \_\_\_\_\_ Location/time of incident
  - \_\_\_\_\_ Initiate chronological log of events

**Phase II: Preliminary Assessment and Initiation of Action**

- \_\_\_\_\_ Make appropriate notifications. See section 2.1 of this plan for required notifications.
  - \_\_\_\_\_ National Response Center (NRC) (800) 424-8802
  - \_\_\_\_\_ Coast Guard Marine Safety Office Buffalo (716) 843-9570
  - \_\_\_\_\_ New York Department of Environmental Conservation (800) 457-7362
  - \_\_\_\_\_ Pennsylvania Department of Environmental Protection (800) 373-3398
  - \_\_\_\_\_ County Emergency Management Offices
  - \_\_\_\_\_ Local fire depts., hazmat teams
  - \_\_\_\_\_ State/County/Local law enforcement agencies
  - \_\_\_\_\_ State/County Health Dept's
  - \_\_\_\_\_ Affected Water Intakes
- \_\_\_\_\_ Identify Specific Risk to Response Personnel
- \_\_\_\_\_ Dispatch response team capable of conducting damage assessment
- \_\_\_\_\_ Obtain waterway and weather conditions
- \_\_\_\_\_ Consider potential risk/existing impact of the following:
  - \_\_\_\_\_ Vessel status/not under command damage (aground, underway, anchored, etc.)
  - \_\_\_\_\_ Vessel structural status (# of tanks affected, sound tank(s), vessel sinking?)
  - \_\_\_\_\_ Personnel casualties
  - \_\_\_\_\_ Likelihood of oil/hazardous materials release
  - \_\_\_\_\_ Vessel traffic safety
  - \_\_\_\_\_ Environmental Damage
- \_\_\_\_\_ Assess risk to public safety/health
  - \_\_\_\_\_ Special forces models
  - \_\_\_\_\_ Evacuation boundaries
  - \_\_\_\_\_ Physical security/site control/safety zones
  - \_\_\_\_\_ Waterborne security/safety zone \_\_\_\_\_ Broadcast NTM/NTA
  - \_\_\_\_\_ Special medical needs
  - \_\_\_\_\_ Speed and direction of currents,
  - \_\_\_\_\_ Water temperature, depth, type of bottom

\_\_\_\_\_ Wind speed/direction, air temp, precipitation, etc.

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**Appendix A.1**  
**Oil Spill Response Checklist (Con't)**

**Phase II: Preliminary Assessment and Initiation of Action**

- \_\_\_\_\_ Establish Lines of communications with responsible party
  - \_\_\_\_\_ Determine actions taken by responsible party (sound tanks, transfer fm damaged tanks)
  - \_\_\_\_\_ Confirm Scope of the spill:
    - \_\_\_\_\_ Product & amount discharged
    - \_\_\_\_\_ Potential amount
  - \_\_\_\_\_ Determine movement of spilled product
  - \_\_\_\_\_ Actions to secure source of the spill
  - \_\_\_\_\_ Shoreline
  - \_\_\_\_\_ Sensitive areas or species at risk (See Section 4)
- \_\_\_\_\_ Determine available resources
  - \_\_\_\_\_ Pre-deployed equipment
  - \_\_\_\_\_ Contractor (Identify source, location & brief description of equipment)
  - \_\_\_\_\_ CG/DOD/other agency air/vessel assets
  - \_\_\_\_\_ Additional sources of manpower
  - \_\_\_\_\_ Public/private stockpiles
  - \_\_\_\_\_ On scene input
  - \_\_\_\_\_ Visual extent of incident
  - \_\_\_\_\_ Physical condition of vessel/facility
  - \_\_\_\_\_ Observed environmental damage
  - \_\_\_\_\_ Recommended priority actions

**Phase III: Containment, Countermeasures, Cleanup, and Disposal**

- \_\_\_\_\_ First Aid Equipment Deployment
- \_\_\_\_\_ Command & Control:
  - \_\_\_\_\_ Select/implement appropriate command structure
  - \_\_\_\_\_ Establish necessary command post(s)
  - \_\_\_\_\_ Identify agency goals/objectives
- \_\_\_\_\_ Create action plan
  - \_\_\_\_\_ Consider applicability of fully developed scenarios
  - \_\_\_\_\_ Develop salvage plan (short and long term)
- \_\_\_\_\_ Identify anticipated personnel/equipment and mobilize in support of action plan
- \_\_\_\_\_ Implement communications plan in support of operations
- \_\_\_\_\_ Develop site safety plan
- \_\_\_\_\_ Equipment Deployment:
  - \_\_\_\_\_ Based on action plan and on-hand limitations
  - \_\_\_\_\_ Effectively integrate arriving resources
  - \_\_\_\_\_ Provide response equipment logistics:
    - \_\_\_\_\_ Transportation\_\_\_\_\_ Maintenance\_\_\_\_\_ Integrate available air assets
- \_\_\_\_\_ Establish wildlife recovery/rehabilitation
- \_\_\_\_\_ Meet personnel needs
  - \_\_\_\_\_ Food/lodging (Identify convenient lodging, including govt. rate & conference room)
  - \_\_\_\_\_ Transportation (Identify sources of rental vehicles)

**Appendix A.1  
Oil Spill Response Checklist (Con't)**

**Phase III: Containment, Countermeasures, Cleanup, and Disposal**

- \_\_\_\_\_ Public Affairs/Other Notifications:
  - \_\_\_\_\_ Establish POC and provide comms link
  - \_\_\_\_\_ Develop press release
  - \_\_\_\_\_ Promulgate/conduct press releases and briefings
  - \_\_\_\_\_ Maintain contact with full realm of media contacts
- \_\_\_\_\_ Disposal Issues:
  - \_\_\_\_\_ Determine temporary storage and disposal needs (Barges, Tanks, Bladders)
  - \_\_\_\_\_ Identify storage and disposal options
  - \_\_\_\_\_ Determine transportation needs/options
  - \_\_\_\_\_ Document means to obtain necessary permit
- \_\_\_\_\_ Consider advisability of special treatment methods, e.g. bioremediation, in-situ burning, etc.
- \_\_\_\_\_ Conduct necessary restoration activities
  - \_\_\_\_\_ Environmental
  - \_\_\_\_\_ Private

**Phase IV: Documentation and Cost Recovery**

- \_\_\_\_\_ Identify funding needs/access OSLTF/CERCLA
- \_\_\_\_\_ Issue appropriate pollution letters
- \_\_\_\_\_ Cost Documentation:
  - \_\_\_\_\_ Implement cost documentation procedures
  - \_\_\_\_\_ Consider contractor support

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**Appendix A.2**  
**Hazardous Material Response Checklist**

The items listed below constitute a reference to aid experienced response personnel in addressing the full scope of necessary response related activities associated with a release of hazardous materials. This checklist is laid out by category of activities and is not meant to be a chronological listing of response actions.

**Phase I: Discovery or Notification**

- \_\_\_\_\_ Collect incident specifics:
  - \_\_\_\_\_ Reporting name & phone number
  - \_\_\_\_\_ Source of incident/related specifics
  - \_\_\_\_\_ Detailed information regarding product released

TRADE NAME:_____	COMMON NAME:_____
CAS NUMBER:_____	UN NUMBER:_____
MEASUREMENT UNIT _____	(circle one):GALS/BBLS/LBS/OTHER:_____
QUANTITY RELEASED:_____	BASIS FOR ESTIMATE:_____
POTENTIAL (tank vol.):_____	VOLUME REMAINING:_____
RELEASE DATE/TIME:_____	
INITIAL COMMENTS:_____	
_____	
_____	

- \_\_\_\_\_ On-Scene Weather
- \_\_\_\_\_ Location of incident
- \_\_\_\_\_ Initiate chronological log of events
- \_\_\_\_\_ Exchange information with local responders

**Phase II: Preliminary Assessment and Initiation of Action**

- \_\_\_\_\_ Make appropriate notifications. See section 2.1 of this plan for required notifications.
  - \_\_\_\_\_ National Response Center (NRC) (800) 424-8802
  - \_\_\_\_\_ Coast Guard Marine Safety Office Buffalo (716) 843-9570
  - \_\_\_\_\_ New York Department of Environmental Conservation (716) 851-7220
  - \_\_\_\_\_ County Emergency Management Offices      Erie County      (716) 858-6578
  - \_\_\_\_\_      Niagara County      (716) 439-7310
  - \_\_\_\_\_ Local fire depts., hazmat teams
  - \_\_\_\_\_ State/County/Local law enforcement agencies
  - \_\_\_\_\_ State/County health Dept's
  - \_\_\_\_\_ Affected Water Intakes
- \_\_\_\_\_ Specific Risk to Response Personnel
- \_\_\_\_\_ Dispatch response team capable of conducting site entry/damage assessment:

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**Appendix A.2**  
**Hazardous Material Response Checklist (Con't)**

The following is intended to provide general guidance in regards to personnel safety issues to on-scene responders. Although it provides valuable information which can be used effectively to ensure the well-being of those involved in a hazardous materials response, it is not intended to replace a more detailed, incident-specific site safety plan. This site safety plan should be a written document prepared in advance of any on-scene action by a qualified representative of that response agency taking the lead on the hazmat.

- \_\_\_\_\_ -Identify hazardous substance/substances involved. (Accurate identification of products, including spelling, is essential. A small mistake can change a chemical's name and thus its properties and associated hazards.) Sources of information include the following:
  - \_\_\_\_\_ a. North American Emergency Response Guidebook
  - \_\_\_\_\_ b. CHRIS manuals
  - \_\_\_\_\_ c. Chemical dictionaries
  - \_\_\_\_\_ d. The MERCK index
  - \_\_\_\_\_ e. CHEMTREC
  - \_\_\_\_\_ f. MSDS's
  - \_\_\_\_\_ g. Manufacturers and users of the material
  - \_\_\_\_\_ h. CAMEO
- \_\_\_\_\_ -Determine exposure limits (IDLH, STEL, TLV, Oxygen deficiency, etc. as applicable.)
- \_\_\_\_\_ -Evaluate risks regarding following modes of entry:
  - \_\_\_\_\_ a. Inhalation
  - \_\_\_\_\_ b. Contact/Absorption
  - \_\_\_\_\_ c. Ingestion
  - \_\_\_\_\_ d. Injection
- \_\_\_\_\_ -Evaluate potential impact to responders of other complicating factors:
  - \_\_\_\_\_ a. Fire, explosion
  - \_\_\_\_\_ b. Weather
  - \_\_\_\_\_ c. Sea State, Terrain
  - \_\_\_\_\_ d. Limited Access Location
  - \_\_\_\_\_ e. Other hazardous substances in area/on premises
- \_\_\_\_\_ -Identify suitable protective equipment
- \_\_\_\_\_ -Ensure responders are aware of risks and symptoms of exposure
- \_\_\_\_\_ -Ensure air monitoring and sampling are being conducted (normally done by Air Quality or county Health Department.)
- \_\_\_\_\_ -Ensure water monitoring and sampling are being conducted (normally done by county Health Dept., NOAA or respective state fish and wildlife authority.)
- \_\_\_\_\_ -Assess risk to public safety/health
- \_\_\_\_\_ -Identify evacuation boundaries
- \_\_\_\_\_ -Physical security/safety zones
- \_\_\_\_\_ -Speed and direction of currents,
- \_\_\_\_\_ -Water temperature, depth, type of bottom
- \_\_\_\_\_ -Wind speed/direction, air temp, precipitation, etc.
- \_\_\_\_\_ -The following questions/issues should also be addressed:



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**Appendix A.2  
Hazardous Material Response Checklist (Con't)**

**RESPONDERS ON SCENE:** \_\_\_\_\_

**WHO IS INCIDENT COMMANDER (IC)** \_\_\_\_\_

**IDENTIFY POTENTIAL COMPLICATIONS, PRELIMINARY ASSESSMENT, THREAT OF  
SPREAD OF CONTAMINATION:** \_\_\_\_\_

**LOCATION OF COMMAND POST:** \_\_\_\_\_

**FASTEST ACCESS ROUTE TO INCIDENT (CONSIDER SAFETY, USE UP-WIND  
APPROACH:** \_\_\_\_\_

- \_\_\_\_\_ Consider potential risk/existing impact of the following:
  - \_\_\_\_\_ Vessel status/not under command damage (aground, underway, anchored, etc.)
  - \_\_\_\_\_ Vessel structural status (number of tanks affected, tank soundings, stability of vessel, including danger of sinking)
  - \_\_\_\_\_ Personnel casualties
  - \_\_\_\_\_ Likelihood of oil/hazardous materials release
  - \_\_\_\_\_ Environmental Damage
- \_\_\_\_\_ Establish lines of communications with responsible party
- \_\_\_\_\_ Determine actions taken by responsible party (sound tanks, transfer from damaged tanks)
- \_\_\_\_\_ Determine type of environment impacted:
  - \_\_\_\_\_ Shoreline
  - \_\_\_\_\_ Sensitive areas at risk
  - \_\_\_\_\_ Sensitive species at risk (See Section 4 of this Plan)
- \_\_\_\_\_ Determine available resources
  - \_\_\_\_\_ Pre-staged
  - \_\_\_\_\_ Contractor (Identify source, location & brief description of equipment)
  - \_\_\_\_\_ DOD/other agency air/vessel assets
  - \_\_\_\_\_ Additional sources of manpower
  - \_\_\_\_\_ Public/private stockpiles
- \_\_\_\_\_ On scene input
  - \_\_\_\_\_ Visual extent of incident
  - \_\_\_\_\_ Physical condition of vessel/facility
  - \_\_\_\_\_ Observed environmental damage
  - \_\_\_\_\_ Recommended priority actions
- \_\_\_\_\_ Obtain waterway and weather conditions
- \_\_\_\_\_ Establish lines of communications with responsible party
- \_\_\_\_\_ Determine actions taken by responsible party (sound tanks, transfer from damaged tanks)
- \_\_\_\_\_ Confirm scope of the spill:
  - \_\_\_\_\_ Product & amount discharged,
  - \_\_\_\_\_ Potential amount
  - \_\_\_\_\_ Determine movement of spilled product
  - \_\_\_\_\_ Actions to secure source of the spill



**Appendix A.2**  
**Hazardous Material Response Checklist (Con't)**

**Phase III: Containment, Countermeasures, Cleanup, and Disposal**

- \_\_\_\_\_ First Aid Equipment Deployment
- \_\_\_\_\_ Command & Control:
  - \_\_\_\_\_ Select/implement appropriate command structure
  - \_\_\_\_\_ Establish necessary command post(s)
  - \_\_\_\_\_ On-Scene Communications (Personnel reporting to either on-site or off-site command post should be equipped with appropriate comms capabilities and be knowledgeable in the comms procedures that will be followed throughout the response.)
  - \_\_\_\_\_ Identify agency goals/objectives
  - \_\_\_\_\_ Determine if responsible party is taking appropriate action
- \_\_\_\_\_ Create action plan - rescue, evacuate injured.
  - \_\_\_\_\_ Consider applicability of fully developed scenarios
  - \_\_\_\_\_ Develop salvage plan (short and long term)
- \_\_\_\_\_ Identify anticipated personnel/equipment and mobilize in support of action plan
- \_\_\_\_\_ Implement communications plan in support of operations
- \_\_\_\_\_ Develop site safety plan
- \_\_\_\_\_ Equipment Deployment:
  - \_\_\_\_\_ Based on action plan and on-hand limitations
  - \_\_\_\_\_ Effectively integrate arriving resources
  - \_\_\_\_\_ Provide response equipment logistics:
    - \_\_\_\_\_ Transportation
    - \_\_\_\_\_ Maintenance
  - \_\_\_\_\_ Integrate available air assets
- \_\_\_\_\_ Establish wildlife recovery/rehabilitation
- \_\_\_\_\_ Meet personnel needs
  - \_\_\_\_\_ Food/lodging (Identify most convenient lodging, including govt. rate & conference room)
  - \_\_\_\_\_ Transportation (Identify sources of rental vehicles)
- \_\_\_\_\_ Public Affairs/Other Notifications:
  - \_\_\_\_\_ Establish POC and provide comms link
  - \_\_\_\_\_ Develop press release:
    - \_\_\_\_\_ Promulgate/conduct press releases and briefings
    - \_\_\_\_\_ Maintain contact with full realm of media contacts
- \_\_\_\_\_ Disposal Issues:
  - \_\_\_\_\_ Determine temporary storage and disposal needs (Barges, Tanks, Bladders)
  - \_\_\_\_\_ Identify storage and disposal options
  - \_\_\_\_\_ Determine transportation needs/options
  - \_\_\_\_\_ Document means to obtain necessary permit
- \_\_\_\_\_ Consider advisability of special treatment methods, e.g. bioremediation, in-situ burning, etc.
- \_\_\_\_\_ Conduct damage assessment
  - \_\_\_\_\_ Determine environmental medium(s) affected (water, air, land (surface-subsurface))

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**Appendix A.2**  
**Hazardous Material Response Checklist (Con't)**

- \_\_\_\_\_ Conduct necessary restoration activities
  - \_\_\_\_\_ Environmental
  - \_\_\_\_\_ Ensure natural resource trustees are notified and aware of their responsibilities concerning the following:
    - \_\_\_\_\_ Damage assessment and associated cost recovery;
    - \_\_\_\_\_ Devising protection, rehabilitation, and restoration plans for natural resources affected;
    - \_\_\_\_\_ Endangered and migratory species;
    - \_\_\_\_\_ Incident-specific concerns (birds flying into plumes, marine life entering contaminated water, etc.)
- \_\_\_\_\_ How clean is clean? Ensure all appropriate agencies are consulted before pronouncing response complete.

**Phase IV: Documentation and Cost Recovery**

**a. Use of CERCLA Fund for Hazardous Materials Incident Response:**

- \_\_\_\_\_ -See the ACP for procedures for accessing the CERCLA fund;
- \_\_\_\_\_ -Criteria for accessing federal financing for a CERCLA cleanup differs from that of an FWPCA cleanup. The U.S. Coast Guard OSC may access the CERCLA Fund for response to a hazardous material incident only after determining CERCLA applicability as outlined in the National Contingency Plan (40 CFR 300).

The following conditions must be met:

- \_\_\_\_\_ 1. Material is a hazardous substance, pollutant or contaminant that may present an imminent and substantial danger to the public health or welfare;
- \_\_\_\_\_ 2. The material has been released or there is a substantial threat of release into the environment;
- \_\_\_\_\_ 3. The responsible party is not taking appropriate action or the OSC must monitor the responsible party's action.

**b. Evidence Collection:**

- \_\_\_\_\_ -Local/county district attorney should be notified immediately and will normally take the local lead in the investigation;
- \_\_\_\_\_ -Thoroughly document elements of a violation as you would for an oil spill;
- \_\_\_\_\_ -Sampling should be conducted if possible, but only by qualified personnel from agencies such as the county health dept., EPA, National Strike Force, etc.
- \_\_\_\_\_ -Issue appropriate pollution letters
- \_\_\_\_\_ -Cost Documentation:
  - \_\_\_\_\_ 1. Implement cost documentation procedures
  - \_\_\_\_\_ 2. Consider contractor support
- \_\_\_\_\_ -Ensure private citizens aware of procedures for filing a cost recovery claim to NPFC.



**Appendix B**  
**Protection Techniques**

**Containment Booming**

Description

Boom is deployed in a “U” shape in front of the oncoming slick. The ends of the booms are anchored by work boats or drogues. The oil is contained within the “U” & prevented from reaching the shore.

Equipment Requirements

For 150 meter (500 ft) slick: 280 meters (900 ft) of boom, 2 boats, boat crews & 4 boom tenders and misc. tow lines, drogues, connector, etc.

Operational Limitations

High winds, swells >2 meters, breaking waves > 50 cm, currents >1 knot.

**Exclusion Booming**

Description

Boom is deployed across or around sensitive areas & anchored in place. Approaching oil is deflected or contained by boom.

Equipment Requirements

Per 300 meters (1000 ft) of boom: 1 boat, boat crew & 3 boom tenders and misc. anchors, lines, buoys etc.

Operational Limitations

Currents >.5 knots, breaking waves >50cm (1.6 ft) and water depth >20 meters (65 ft).

**Deflection Booming**

Description

Boom is deployed from the shoreline away from the approaching slick & anchored or held in place with a work boat. Oil is deflected away from shoreline.

Equipment Requirements

Boom is deployed from the shoreline away from the approaching slick & anchored or held in place with a work boat. Oil is deflected away from shoreline.

Operational Limitations

Currents >1 knot and breaking waves >50 cm (1.6 ft).

**Appendix B  
Protection Techniques (Con't)**

**Diversion Booming**

Description

Boom is deployed from the shoreline at an angle toward the approaching slick & anchored or held in place with a work boat. Oil is diverted towards shoreline for recovery.

Equipment Requirements

Boom is deployed from the shoreline away from the approaching slick & anchored or held in place with a work boat. Oil is deflected away from shoreline.

Operational Limitations

Currents >1 knot and breaking waves >50 cm (1.6 ft).

**Skimming**

Description

Self-propelled skimmers work back & forth along the leading edge of a windrow to recover the oil. Booms may be deployed from the front of a skimmer in a “V” configuration to increase sweep width. Portable skimmers are placed within containment booms in the area of heaviest oil concentration.

Equipment Requirements

Skimmer unit 200 meters of boom, 2 boats, boat crews and 4 boom tenders, misc. tow lines, bridles, connectors, etc., portable hoses and oil storage tank.

Operational Limitations

Currents>1 Knot and breaking waves>50 cm.

**Onshore Techniques**

**Berms**

Description

A berm is constructed along the top of the mid-intertidal zone from sediments excavated along the downgradient side. The berm should be covered with plastic or geotextile sheeting to minimize wave erosion.

Equipment Requirements

Bulldozer/Motor grader, equipment operator and 1 worker, misc. plastic or geotextile sheeting.

Operational Limitations

High wave energy, large tidal range and strong alongshore currents.

**Appendix B  
Protection Techniques (Con't)**

**Sorbent Barriers**

Description

A barrier is constructed by installing two parallel lines of stakes across a channel, fastening wire mesh to the stakes & filling the space between with loose sorbents.

Equipment Requirements

Per 30 meters (100 ft) of barrier: 70x2 meter wire mesh, 20 stakes, 2 people, misc., fasteners, support lines, additional stakes etc.

Operational Limitations

Waves >25cm, currents >.5 knots and tidal range >2 meters.

**Inlet Dams**

Description

A dam is constructed across the channel using local soil or beach sediment to exclude oil from entering channel.

Equipment Requirements

1 loader, equipment operator and worker or several workers with shovels.

Operational Limitations

Waves >25cm, tidal range exceeding dam height and freshwater out flow.

**Eastern Great Lakes Area Contingency Plan  
Geographic Response Plan for  
Buffalo/Niagara Region - Western New York State**

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**Appendix C  
Geographic Subcommittee Members**

<b>Name/Title</b>	<b>Address</b>	<b>Telephone</b>
<b><u>Subcommittee Chair</u></b>	NY Department of Environmental Conservation, Region 9	(716) 851-7220 Fax: (716) 851-7252
Spill Engineer	270 Michigan Avenue Buffalo, NY 14203-2999	
<b><u>Members</u></b>		
Director, Region III	New York State Emergency Management Office 1144 East Union Street Newark, NY 14513-9802	(315) 331-4880 24hr (518) 457-2200 Fax: (315) 331-3934
Deputy Commissioner	Erie County (NY) Department of Emergency Services 95 Franklin Street Buffalo, NY 14202	(716) 858-8477 Fax: (716) 858-7937
Director	Niagara County (NY) Emergency Management Office P.O. Box 496 Lockport, NY 14095	(716) 438-3471 Fax: (716) 438-3473
Assistant Director	Niagara County (NY) Emergency Management Office PO Box 496 Lockport, NY 14095	(716) 438-3476 Fax: (716) 438-3475
Environmental Specialist	NY Department of Environmental Conservation, Region 9 270 Michigan Avenue Buffalo, NY 14203-2999	(716) 851-7010 Fax: (716) 851-7252
Emergency Management Specialist	U.S. Corps of Engineers Buffalo District 1776 Niagara Street Buffalo, NY 14207-3199	(716) 879-4454 Fax: (716) 879-4267

**Eastern Great Lakes Area Contingency Plan**  
**Annex II, Geographic Response Plan for**  
**Buffalo/Niagara Region - Western New York State**

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**Appendix C**  
**Geographic Subcommittee Members (Con't)**

<b>Name/Title</b>	<b>Address</b>	<b>Telephone</b>
Operations Manager	NOCO 700 Grand Island Boulevard Tonawanda, NY 14150	(716) 874-7250 Fax: (716) 874-0773
Plant Manager	United Refining Company 4545 River Road Tonawanda, NY 14150	(716) 874-6650 Fax: (716) 877-3825
Chairman	Erie County (NY) LEPC 2000 M&T Plaza Buffalo, NY 14203	(716) 848-1417 Fax: (716) 852-0349
Field Station Manager	Great Lakes Center HC-215 Buffalo State College 1300 Elmwood Avenue Buffalo, NY 14222-1095	(716) 878-5625 Fax: (716) 878-6646
Branch Manager	Op-Tech Environmental Services 108 Sawyer Avenue Tonawanda, NY 14150	(716) 873-7680 Fax: (716) 873-7807
Public Health Specialist 3	New York State Department of Health 584 Delaware Avenue Buffalo, NY 14202	(716) 847-4502 Fax: (716) 847-4661
Officer in Charge	Officer in Charge USCG Station Buffalo 1 Fuhrmann Blvd. Buffalo, NY 14203-3189	(716) 843-9561 Fax: (716) 843-9567
Officer in Charge	Officer in Charge USCG Station Niagara Youngstown, NY 14174	(716) 745-3327 Fax: (716) 745-9620
Chief, Port Operations Department	U.S. Coast Guard Marine Safety Office Buffalo 1 Fuhrmann Boulevard Buffalo, NY 14203	(716) 843-9570 Fax: (716) 843-9571

**Eastern Great Lakes Area Contingency Plan  
Annex II, Geographic Response Plan for  
Buffalo/Niagara Region - Western New York State**

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**Appendix D.1  
Comments / Corrections / Suggestions Form**

Directions: Make a copy of this form before you fill it in so you have extra forms.

Fill in your name, address, agency, and telephone number. Fill in the blanks regarding the location of information in the plan that is being commented on. Make comments in the space provided; attach additional sheets if required. Forms should be returned to:

USCG Marine Safety Office Buffalo  
1 Fuhrmann Boulevard  
Buffalo, NY 14203

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code \_\_\_\_\_  
Phone: \_\_\_\_\_

Page Number: \_\_\_\_\_  
Location on page (Chapter, section, paragraph): \_\_\_\_\_

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